

ARCO Metals Company

Primary Aluminum Reduction Plant Columbia Falls, Wontana

Location and General Description

- Located in northwestern Montana at the base of Teakettle Mountain; 2 miles northeast of Columbia Falls, Montana (Flathead County); 17 miles from Kalispell, Montana; just southwest of Glacier National Park.
- · 255 miles east of Spokane, Washington; 62 miles south of the Canadlan border.
- 3037 feet above sea level.

 Site area: Fenced plant site

220 acres

Buffer property

3,712 acres

TOTAL

3,932 acres

· Building area:

Manufacturing

1,750,000 square feet

Warehouse and shipping 137,000 square feet

122,200 square feet

Other TOTAL

2,009,200 square feet

• Rated annual aluminum production capacity

180,000 tons

Product:

Various sizes and alloys of primary aluminum ingot

- -Rolling ingot
- -Remelt ingot
- -Foundry ingol

History of The Facility

- Construction of first two potlines began in 1952.
- · First two potlines started production in 1955.
- Third potline added in 1965.
- Fourth and fifth potlines added in 1968.
- Sumitomo technology purchased and installed 1977-1981 in order to satisfy State of Montana environmental control relations and to reduce electrical costs.

Production Technology and Capabilities

- Pechiney vertical stud Soderberg reduction cells, modified by Sumitomo Technology.
- Five potlines, 120 pots per line, end to end in 10 pot rooms.
- Nine furnaces, 4 casting pits, 1 "pig" casting machine.
- Rod mill facility,
- · Virtually self-sufficient for all operational and maintance requirements.
- Among the lowest in energy costs of all aluminum producers in the Pacific Northwest.

Electrical Supply

- Industrial firm power purchased from the Bonneville Power Administration
- 20-year contract (effective July 1, 1981), cancellable in part or in whole with a onevear notice.
- Maximum power load available, 427.5 megawatts.
- Electrical load at plant capacity, 346 megawatts.

Natural Gas Supply

 Natural gas purchased from the Montana Power Company, from reserves in both the U.S. and Canada.

Alumina Storage and Handling

 Alumina transloaded from ocean vessels at Port Everett, Washington at a maximum rate of 8,800 tons per day.

 Alumina storage capacity: Port Everett— Columbia Falls—

55,000 tons 59,000 tons

TOTAL

114,000 tons

 Rail transport for alumina, other materials and finished goods provided by the Burlington Northern.

Labor and Management

- Hourly labor represented by the Aluminum Workers Trade Council, AFL-CIO.
- Current labor contract expires September 15, 1986.
- No significant work stoppages have ever been caused by labor or contract disputes.
- Cooperative labor environment with less restrictive work rules than most other comparable U.S. facilities.
- Average years of service for hourly employees is over 14 years.
- Absentee rate is 1.5%, over the last three years.
- Experienced managerial and professional employees.

Environmental Compliance Record

- In compliance with all applicable state and federal rules concerning fluoride and particulate emissions.
- Principal environmental control equipment are a dry scrubber system (Alcoa 398) and 15 baghouses.
- Fluoride emissions from cell operations have been reduced from 2500 pounds per day to 1000 pounds per day by the Sumitomo technology modifications.

Community Climate

- Plant management extensively involved in state and local civic and government activities
- ARCO provides 10% of the direct income to the Flathead Valley area.
- Communications with community have been handled in a very intensive and proactive fashion producing significant support for energy legislation, environmental matters and productivity improvement.
- Flathead Valley is a significant outdoor recreational area with Glacier National park and major ski resort. Tourism is the area's growth business.

Capital Spending

- Major maintenance/upgrade program completed in 1981.
- Average annual spending: 1977-1981, was \$11.4 million; 1982-1983, was \$2.2 million.
- Required capital spending for 1985-1990 is estimated to average \$3.7 million per year.